

2003
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates
where available

Special Locality Report
157
Town of Rocky Mount

Prepared By
Virginia Department of Transportation
Mobility Management Division

In Cooperation With
U.S. Department of Transportation
Federal Highway Administration

Virginia Department of Transportation
Mobility Management Division
Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled “Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes” includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled “Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99”.

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people at VDOT Mobility Management’s Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

Publication Notes

Parallel Roads

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a “Combined Traffic Estimates for Parallel Roadways on this Route” or “Combined Traffic” identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate “NA” for not available.

VDOT’s traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating “NA” for not available. It is the intention of the VDOT’s Mobility Management Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate “NA” for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

Glossary of Terms:

Route: The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

Length: Length of the traffic segment in miles.

AADT: Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

4Tire: Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

Bus: Percentage of the traffic volume made up of busses.

2Axle Truck: Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

3+Axle Truck: Percentage of the traffic volume made up of single unit trucks with three or more axles.

1Trail Truck: Percentage of the traffic volume made up of units with a single trailer.

2Trail Truck: Percentage of the traffic volume made up of units with more than one trailer.

QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

K Factor: The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

QK: Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During at least 250 days of Continuous Traffic Data
- B Factor based on other Hour Observed During Less than 250 days of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of design hour
- N Peak Hour Factor of Similar Neighboring Traffic Link
- O Provided by External Source

Dir Factor: The estimate of the portion of the traffic volume traveling in the peak direction during the peak hour..

AAWDT: Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.





QW: Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source





Year: Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

Route Shield Legend

Route Systems

North 	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
	US Route	
	Virginia State Route	
	Secondary Route	

Special Routes

Bus 	Bus - Business Route
	Bypas - Bypass Route
	Truck - Truck Route
ALT 	ALT - Alternate Route
	Wve - Wye Route connector
	P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.
	The VDOT Maintenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

Virginia Department of Transportation
Mobility Management Division
2003
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Rocky Mount

Route		Length	AADT	QA	4Tire	Bus	Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
							2Axle	3+Axle	1Trail	2Trail							
Town of Rocky Mount																	
40	Franklin Street	0.80	9900	G	From:	WCL Rocky Mount				C	0.089	F	0.592	10000	G	2003	
					To:	Floyd Ave											
40	Franklin Street	0.36	8200	G	From:	Diamond Ave				F	0.087	F	0.634	8300	G	2003	
					To:	North Main Street											
40	Franklin Street	0.18	10000	G	From:	Norht Main St				F	0.088	F	0.616	11000	G	2003	
					To:	South Main St											
40	Pell Ave	0.75	6200	G	From:	South Main Street				C	0.089	F	0.514	6300	G	2003	
					To:	Tanyard Rd											
40	Pell Ave	0.30	16000	G	From:	ECL Rocky Mount				F	0.084	F	0.581	16000	G	2003	
					To:	SCL Rocky Mount											
Bus 220	South Main St	0.10	6100	G	From:	Scuffling Hill Rd				F	0.084	F	0.574	6200	G	2003	
					To:	Floyd Ave											
Bus 220	South Main St	0.24	9100	G	From:	Tanyard Road				F	0.086	F	0.587	5700	G	2003	
					To:	Claiborne Ave											
Bus 220	South Main St	0.15	4600	G	From:	Pell Ave				F	0.091	F	0.548	4700	G	2003	
					To:	Franklin St											
Bus 220	North Main St	0.54	10000	G	From:	North Int Circle Dr				C	0.088	F	0.528	10000	G	2003	
					To:	NCL Rocky Mount											
9122 33	Middle School Rd	0.51	1000	R	From:	US 220 BUS					NA			NA		1995	
					To:	Franklin Middle School											
9152 33	Franklin Training School	0.04	10	R	From:	Dead End					NA			NA		1986	
					To:	Dead End											
1	State St	0.80	2600	G	From:	South Main St				C	0.091	F	0.644	2700	G	2003	
					To:	Weaver St											
1	State St	0.54	2800	G	From:	North Main St				F	0.102	F	0.698	2800	G	2003	
					To:	Court St											
2	Donald Ave	0.45	2600	G	From:	Tanyard Rd				C	0.089	F	0.534	2600	G	2003	
					To:	Orchard Ave											
3	Court St	0.26	2500	G	From:	Donald Ave				C	0.098	F	0.515	2500	G	2003	
					To:	Main St											
4	Orchard Ave	0.21	1200	G	From:	Cliff St				F	0.115	F	0.621	1200	G	2003	
					To:												

Virginia Department of Transportation
Mobility Management Division
2003
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Rocky Mount

Route		Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
							2Axle	3+Axle	1Trail	2Trail							
Town of Rocky Mount																	
4	Orchard Ave	0.59	1500	G	From	Cliff St				C	0.118	F	0.516	1500	G	2003	
					To	Court St											
5	Diamond Ave	0.32	1400	G	From	WCL Rocky Mount				F	0.096	F	0.56	1400	G	2003	
					To	W. End St											
5	Diamond Ave	0.31	1800	G	From	99% 0% 0% 1% 0% 0%				C	0.096	F	0.638	1800	G	2003	
					To	Franklin St											
390	Scuffling Hill Rd	0.87	2400	G	From	WCL Rocky Mount				C	0.097	F	0.562	2400	G	2003	
					To	W. Knollwood Ave											
390	Scuffling Hill Rd	0.52	2700	G	From	97% 0% 1% 0% 1% 0%				F	0.102	F	0.608	2700	G	2003	
					To	Main St											
392	Grassy Hill Rd	0.35	3200	G	From	WCL Rocky Mount				C	0.102	F	0.506	3300	G	2003	
					To	North Main St											
2314	Tanyard Rd	0.69	7500	G	From	Main St				C	0.093	F	0.552	7600	G	2003	
					To	Pell Ave											
2315	Floyd Ave	0.22	3600	G	From	Franklin St				C	0.100	F	0.719	3700	G	2003	
					To	Main St											